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Claims:

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1. Use of a single-cell protein material for the preparation of a pharmaceutical or nutritional preparation for the treatment and/or prevention of atherosclerosis, coronary heart disease, stenosis, thrombosis, myocardial infarction, stroke and fatty liver in an animal.

- 2. Use of a single-cell protein material for the preparation of a pharmaceutical or nutritional composition for the treatment and/or prevention of hypercholesterolemia.
- 3. Use of a single-cell protein material for the preparation of a pharmaceutical or nutritional composition for lowering the concentration of homocysteine in the plasma.
- 4. Use if a single-cell protein material for the preparation of a pharmaceutical or nutritional cardio protective composition.
 - 5. Use of a single-cell material for the preparation of a pharmaceutical or nutritional for changing the fatty acyl pattern, and for improving the lipid homeostasis.
- 20 6. Use of a single-cell protein material in accordance with one of the preceeding claims, wherein said animal is a human.
 - 7. Use of a single-cell protein material in accordance with one of the preceeding claims, wherein said animal is an agricultural animal, such as gallinaceous birds, bovine, ovine, caprine or porcine mammals.
 - 8. Use of a single-cell protein material in accordance with one of the preceeding claims, wherein said animal is a domestic or pet animal, such as dog or cat.
- 30 9. Use of a single-cell protein material in accordance with one of the preceeding claims,, wherein said animal is a fish or shellfish, such as salmon, cod, Tilapia, clams, oysters, lobster or crabs.
- 10. Use in accordance with one of the preceeding claims, wherein said single-cell material is a microbial culture comprising methanotrophic bacteria.
 - Use in accordance with claim 9, wherein said microbial culture further comprises one or more species of heterotrophic bacteria.

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12. Use in accordance with claim 10, wherein said microbial culture comprises a combination of microbial culture comprising *Methylococcus capsulatus*, *Ralstonia sp.*, *Brevibacillus agri* and *Aneurinibacillus sp.*

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- 13. Use in accordance with one of the preceding claims wherein *Methylococcus* capsulatus is the main or sole ingredient of the SPC material.
- 14. Use in accordance with one of the preceeding claims, wherein the single-cell culture is pruduces by continuous fermentation, preferably operated with 2-3% biomass (on a dry weight basis).
- Use in accordance with one of the preceding claims, wherein the single-cell material after fermentation is subjected to centrifugation in an industrial continuous
 centrifuge, preferably at 3,000 rpm, followed by ultrafiltration using membranes having an exclusion size of preferable 100,000 Daltons.
 - 16. Use in accordance with claim 15, wherein the single-cell material further is subjected to a sterilization step, preferable in a heat exchanger.

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- 17. Use in accordance with on of the claims 12-16, wherein the single-cell material further is subjected to a homogenization step.
- 18. Use in accordance with on of the claims 12-17, wherein the single-cell material 25 is dried by spray drying.
 - 19. Use in accordance with claim 16, wherein prior to spray drying the material is held in a storage tank at a temperature of less than 20°C and a pH of less than about 6.5.

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- 30 20. Use in accordance with one of the claims 1-19, wherein said single-cell material is derived from fermentation on hydrocarbon fractions or on natural gas.
 - 21. Use in accordance with one of the claims 1-20, wherein the composition is a food grade product or additive, e.g. an animal feed or pet food.